| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DynStructOperations.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/org/omg/DynamicAny/DynStructHelper.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/DynamicAny/DynUnion.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/DynamicAny/DynStructOperations.html)    [**NO FRAMES**](http://docs.google.com/DynStructOperations.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

## **org.omg.DynamicAny**

Interface DynStructOperations

**All Superinterfaces:** [DynAnyOperations](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html) **All Known Subinterfaces:** [DynStruct](http://docs.google.com/org/omg/DynamicAny/DynStruct.html) **All Known Implementing Classes:** [\_DynStructStub](http://docs.google.com/org/omg/DynamicAny/_DynStructStub.html)

public interface **DynStructOperations**extends [DynAnyOperations](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html)

DynStruct objects support the manipulation of IDL struct and exception values. Members of the exceptions are handled in the same way as members of a struct.

| **Method Summary** | |
| --- | --- |
| [TCKind](http://docs.google.com/org/omg/CORBA/TCKind.html) | [**current\_member\_kind**](http://docs.google.com/org/omg/DynamicAny/DynStructOperations.html#current_member_kind())()            Returns the TCKind associated with the member at the current position. |
| [String](http://docs.google.com/java/lang/String.html) | [**current\_member\_name**](http://docs.google.com/org/omg/DynamicAny/DynStructOperations.html#current_member_name())()            Returns the name of the member at the current position. |
| [NameDynAnyPair](http://docs.google.com/org/omg/DynamicAny/NameDynAnyPair.html)[] | [**get\_members\_as\_dyn\_any**](http://docs.google.com/org/omg/DynamicAny/DynStructOperations.html#get_members_as_dyn_any())()            Returns a sequence of NameDynAnyPairs describing the name and the value of each member in the struct associated with a DynStruct object. |
| [NameValuePair](http://docs.google.com/org/omg/DynamicAny/NameValuePair.html)[] | [**get\_members**](http://docs.google.com/org/omg/DynamicAny/DynStructOperations.html#get_members())()            Returns a sequence of NameValuePairs describing the name and the value of each member in the struct associated with a DynStruct object. |
| void | [**set\_members\_as\_dyn\_any**](http://docs.google.com/org/omg/DynamicAny/DynStructOperations.html#set_members_as_dyn_any(org.omg.DynamicAny.NameDynAnyPair%5B%5D))([NameDynAnyPair](http://docs.google.com/org/omg/DynamicAny/NameDynAnyPair.html)[] value)            Initializes the struct data value associated with a DynStruct object from a sequence of NameDynAnyPairs. |
| void | [**set\_members**](http://docs.google.com/org/omg/DynamicAny/DynStructOperations.html#set_members(org.omg.DynamicAny.NameValuePair%5B%5D))([NameValuePair](http://docs.google.com/org/omg/DynamicAny/NameValuePair.html)[] value)            Initializes the struct data value associated with a DynStruct object from a sequence of NameValuePairs. |

| **Methods inherited from interface org.omg.DynamicAny.**[**DynAnyOperations**](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html) |
| --- |
| [assign](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#assign(org.omg.DynamicAny.DynAny)), [component\_count](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#component_count()), [copy](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#copy()), [current\_component](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#current_component()), [destroy](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#destroy()), [equal](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#equal(org.omg.DynamicAny.DynAny)), [from\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#from_any(org.omg.CORBA.Any)), [get\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_any()), [get\_boolean](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_boolean()), [get\_char](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_char()), [get\_double](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_double()), [get\_dyn\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_dyn_any()), [get\_float](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_float()), [get\_long](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_long()), [get\_longlong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_longlong()), [get\_octet](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_octet()), [get\_reference](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_reference()), [get\_short](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_short()), [get\_string](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_string()), [get\_typecode](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_typecode()), [get\_ulong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_ulong()), [get\_ulonglong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_ulonglong()), [get\_ushort](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_ushort()), [get\_val](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_val()), [get\_wchar](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_wchar()), [get\_wstring](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_wstring()), [insert\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_any(org.omg.CORBA.Any)), [insert\_boolean](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_boolean(boolean)), [insert\_char](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_char(char)), [insert\_double](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_double(double)), [insert\_dyn\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_dyn_any(org.omg.DynamicAny.DynAny)), [insert\_float](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_float(float)), [insert\_long](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_long(int)), [insert\_longlong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_longlong(long)), [insert\_octet](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_octet(byte)), [insert\_reference](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_reference(org.omg.CORBA.Object)), [insert\_short](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_short(short)), [insert\_string](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_string(java.lang.String)), [insert\_typecode](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_typecode(org.omg.CORBA.TypeCode)), [insert\_ulong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_ulong(int)), [insert\_ulonglong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_ulonglong(long)), [insert\_ushort](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_ushort(short)), [insert\_val](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_val(java.io.Serializable)), [insert\_wchar](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_wchar(char)), [insert\_wstring](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_wstring(java.lang.String)), [next](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#next()), [rewind](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#rewind()), [seek](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#seek(int)), [to\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#to_any()), [type](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#type()) |

| **Method Detail** |
| --- |

### current\_member\_name

[String](http://docs.google.com/java/lang/String.html) **current\_member\_name**()  
 throws [TypeMismatch](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/TypeMismatch.html),  
 [InvalidValue](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/InvalidValue.html)

Returns the name of the member at the current position. This operation may return an empty string since the TypeCode of the value being manipulated may not contain the names of members.

**Throws:** TypeMismatch - if the DynStruct represents an empty exception. InvalidValue - if the current position does not indicate a member

### current\_member\_kind

[TCKind](http://docs.google.com/org/omg/CORBA/TCKind.html) **current\_member\_kind**()  
 throws [TypeMismatch](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/TypeMismatch.html),  
 [InvalidValue](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/InvalidValue.html)

Returns the TCKind associated with the member at the current position.

**Throws:** TypeMismatch - if the DynStruct represents an empty exception. InvalidValue - if the current position does not indicate a member

### get\_members

[NameValuePair](http://docs.google.com/org/omg/DynamicAny/NameValuePair.html)[] **get\_members**()

Returns a sequence of NameValuePairs describing the name and the value of each member in the struct associated with a DynStruct object. The sequence contains members in the same order as the declaration order of members as indicated by the DynStruct's TypeCode. The current position is not affected. The member names in the returned sequence will be empty strings if the DynStruct's TypeCode does not contain member names.

### set\_members

void **set\_members**([NameValuePair](http://docs.google.com/org/omg/DynamicAny/NameValuePair.html)[] value)  
 throws [TypeMismatch](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/TypeMismatch.html),  
 [InvalidValue](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/InvalidValue.html)

Initializes the struct data value associated with a DynStruct object from a sequence of NameValuePairs. The operation sets the current position to zero if the passed sequences has non-zero length. Otherwise, if an empty sequence is passed, the current position is set to -1.

Members must appear in the NameValuePairs in the order in which they appear in the IDL specification of the struct as indicated by the DynStruct's TypeCode or they must be empty strings. The operation makes no attempt to assign member values based on member names.

**Throws:** TypeMismatch - if the member names supplied in the passed sequence do not match the corresponding member name in the DynStruct's TypeCode and they are not empty strings InvalidValue - if the passed sequence has a number of elements that disagrees with the number of members as indicated by the DynStruct's TypeCode

### get\_members\_as\_dyn\_any

[NameDynAnyPair](http://docs.google.com/org/omg/DynamicAny/NameDynAnyPair.html)[] **get\_members\_as\_dyn\_any**()

Returns a sequence of NameDynAnyPairs describing the name and the value of each member in the struct associated with a DynStruct object. The sequence contains members in the same order as the declaration order of members as indicated by the DynStruct's TypeCode. The current position is not affected. The member names in the returned sequence will be empty strings if the DynStruct's TypeCode does not contain member names.

### set\_members\_as\_dyn\_any

void **set\_members\_as\_dyn\_any**([NameDynAnyPair](http://docs.google.com/org/omg/DynamicAny/NameDynAnyPair.html)[] value)  
 throws [TypeMismatch](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/TypeMismatch.html),  
 [InvalidValue](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/InvalidValue.html)

Initializes the struct data value associated with a DynStruct object from a sequence of NameDynAnyPairs. The operation sets the current position to zero if the passed sequences has non-zero length. Otherwise, if an empty sequence is passed, the current position is set to -1.

Members must appear in the NameDynAnyPairs in the order in which they appear in the IDL specification of the struct as indicated by the DynStruct's TypeCode or they must be empty strings. The operation makes no attempt to assign member values based on member names.

**Throws:** TypeMismatch - if the member names supplied in the passed sequence do not match the corresponding member name in the DynStruct's TypeCode and they are not empty strings InvalidValue - if the passed sequence has a number of elements that disagrees with the number of members as indicated by the DynStruct's TypeCode

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DynStructOperations.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/org/omg/DynamicAny/DynStructHelper.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/DynamicAny/DynUnion.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/DynamicAny/DynStructOperations.html)    [**NO FRAMES**](http://docs.google.com/DynStructOperations.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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